Notice of Allowability	Application No.	Applicant(s)	
	10/626,132	SADIGH ET AL.	
	Examiner	Art Unit	
	Stephen J Stein	1775	<u> </u>
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in b) or other appropriate comm RIGHTS. This application is:	n this application. If not incurred unication will be mailed in	cluded due course. THIS
1. Mail This communication is responsive to Applicants' amendm	ent filed December 1, 2004.		
2. X The allowed claim(s) is/are 1,7 and 8.			
3. \boxtimes The drawings filed on <u>23 July 2003</u> are accepted by the E	xaminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ Copies of the certified copies of the priority documents have 2. ☐ Copies of the certified copies of the priority documents have 1. ☐ Copies of the priority documents have 1.	re been received. re been received in Application occuments have been received. re of this communication to file MENT of this application. related. Note the attached EX ves reason(s) why the oath outst be submitted.	on No d in this national stage apple a reply complying with the AMINER'S AMENDMENT r declaration is deficient.	e requirements
 (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	r's Amendment / Comment o	r in the Office action of the drawings in the front (no	t the back) of
7. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT			ed. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview S Paper No. /08), 7. ⊠ Examiner's	nformal Patent Application formal Patent Application formary (PTO-413), /Mail Date	Allowance
		St. L	Me

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Alan Thompson on December 12, 2004.

The application has been amended as follows:

IN THE SPECIFICATION

On Page 1 after the title, insert

-- This application is a divisional application of 10/246,890, now US Patent 6,617,228, filed September 18, 2002, which is continuation of 09/945,932, now US Patent 6,498,078, filed September 5, 2001, which claims benefit of 60/230,615, filed September 5, 2000. --

IN THE CLAIMS

7 (TWICE AMENDED) The semiconductor material of claim 1, wherein said silicon semiconductor material is p-type silicon comprising a dopant of boron or indium [comprising a p-type semiconductor comprising silicon and a dopant comprising boron or indium].

Allowable Subject Matter

2. Claims 1, 7 and 8 are allowed over the prior art of record.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

While the closest prior art of record US 4,939,043, (Biricik et al.) teaches a silicon semiconductor coating on a zinc sulfide substrate containing boron or indium dopants, the prior art of record fails to teach or suggest a semiconductor material having a equilibrium dopant solubility of boron or indium of greater than 1% wherein the semiconductor material comprises silicon grown on a aluminum phosphate (A1P) substrate along a (001) direction.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Stein whose telephone number is 572-272-1544. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:00 p.m. If the attempts to reach the examiner are unsuccessful, the examiner's supervisor, Deborah Jones can be reached by dialing 571-272-1535. The official fax number is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)...

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December 10, 2004

Studen Stans Primary Examiner Art Unit 1775